

**Commonwealth of Kentucky  
Energy and Environment Cabinet  
Department for Environmental Protection  
Division for Air Quality  
200 Fair Oak Lane, First Floor  
Frankfort, Kentucky 40601  
(502) 573-3382**

**Proposed**

**AIR QUALITY PERMIT  
Issued under 401 KAR 52:020**

**Permittee Name:** Kentucky State University  
**Mailing Address:** 400 East Main Street, Frankfort, KY 40601

**Source Name:** Kentucky State University  
**Mailing Address:** 400 E. Main Street  
Frankfort, KY 40601

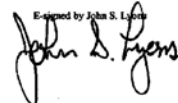
**Source Location:** 400 E. Main Street, Jordan Building

**Permit:** V-08-031  
**Agency Interest:** 1405  
**Activity:** APE20080002  
**Review Type:** Title V, Construction / Operating  
**Source ID:** 21-073-00001

**Regional Office:** Frankfort Regional Office  
663 Teton Trail  
Frankfort, KY 40601  
(502) 564-3358

**County:** Franklin

**Application**  
**Complete Date:** August 29, 2008  
**Issuance Date:** December 5, 2008  
**Revision Date:**  
**Expiration Date:** December 5, 2013

Designed by John S. Lyons  


---

**John S. Lyons, Director  
Division for Air Quality**

## TABLE OF CONTENTS

SECTION	ISSUANCE	PAGE
A. PERMIT AUTHORIZATION	12/5/08	1
B. EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS	12/5/08	2
C. INSIGNIFICANT ACTIVITIES	12/5/08	12
D. SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS	12/5/08	13
E. SOURCE CONTROL EQUIPMENT REQUIREMENTS	12/5/08	14
F. MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS	12/5/08	15
G. GENERAL PROVISIONS	12/5/08	18
H. ALTERNATE OPERATING SCENARIOS	12/5/08	22
I. COMPLIANCE SCHEDULE	12/5/08	25

Permit #	Permit type	Activity#	Complete Date	Issuance Date	Summary of Action
O-79-444	Operating	initial	1979	1979	Initial Permit operation of a 40MMBtu/hr and 20MMBtu/hr coal fired boilers for heating
V-08-031	Initial Title V	APE20080001	8/29/08	12/5/08	In 1989 installed natural gas boiler, 18 MMBtu/hr (EU-03), fourteen natural gas fired water heaters, and four diesel and four natural gas fired emergency generators.

## **SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****Emission Unit 01 (EP-01, EP-02)****Two Coal Fired Indirect Heat Exchangers****Description:**

EP-01 Rated at: 40 MMBtu/hr

EP-02 Rated at: 20 MMBtu/hr

Controls: Multiclone

Year Constructed: 1977

**APPLICABLE REGULATIONS:**

401 KAR 61:015, Existing indirect heat exchangers, applicable to an emissions unit with a capacity of less than 250 MMBtu/hr, which commenced before April 9, 1972.

**NON-APPLICABLE REGULATIONS:**

Clean Air Act Section 112(j). Permittee has elected to accept voluntary federally enforceable operating and emission limits to preclude applicability of these standards.

**1. Operating Limitations:**

- a. To preclude Section 112(j), of Clean Air Act, the source-wide emissions of hydrogen chloride (HCl) shall not exceed 9.0 tons in any twelve (12) consecutive months. To preclude applicability of CAA Section 112(j), the chlorine content of the fuel burned shall not exceed 2956 ppm, by weight, on a monthly average.
- b. To preclude Section 112(j) of the Clean Air Act, the hours of operation for the boiler shall be limited to 5000 hours year in any consecutive twelve months total.

**2. Emission Limitations:**

- a. Pursuant to 401 KAR 61:015, Section 4(1), particulate emissions from each unit shall not exceed 0.32 lb/MMBtu based on a three-hour average.

**Compliance Demonstration Method:**
$$\text{Particulate Emission Rate} = [\text{EF}] / [\text{coal heating value (MMBtu/ton)}] \times [1 - (\text{MCE}/100)]$$

Where :

EF is the emission factor in lb/ton from current AP 42 1.1-4 until replaced with an approved performance test emission factor

MCE is Cyclone Control Efficiency

- b. Pursuant to 401 KAR 61:015, Section 4(2)(b), visible emissions shall not exceed twenty (20) percent opacity based on a six-minute average except that a maximum of forty (40) percent opacity shall be permissible for not more than six (6) consecutive minutes in any sixty (60) consecutive minutes during cleaning the fire box or blowing soot.

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

- c. Pursuant to 401 KAR 61:015, Section 4(2)(c), emissions shall not exceed twenty (20) percent opacity based on a six-minute average except during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations.
- d. Pursuant to 401 KAR 61:015, Section 5(1), sulfur dioxide emissions from each unit shall not exceed 1.13 lb/MMBtu based on a twenty-four hour average.

**Compliance Demonstration:**

The permittee may assure compliance with the sulfur dioxide standard by calculating sulfur dioxide emissions using the following formula:

$$\text{Sulfur Dioxide Emissions (lb / MMBtu)} = \left[ \frac{EF \text{ (lb / ton)} \times S}{\text{Heating value of coal (MMBtu / ton)}} \right]$$

EF = emission factor from AP-42 (currently 38 lbs/ton)

S = percent sulfur content in coal

**3. Testing Requirements:**

- a. Pursuant to 401 KAR 50:045, for initial demonstration of compliance with HCl emissions the permittee shall submit a schedule and conduct one performance test within six months from the date of the final permit (V-08-031) using EPA Reference Method 26. The permittee shall conduct another performance test for HCl emissions by the start of the fourth year of this permit to demonstrate compliance with the applicable standard. Emission factors derived from stack testing are to replace the emission factor currently listed in the KYEIS, and shall be used to calculate future emissions.
- b. Pursuant to 401 KAR 50:045, for initial demonstration of compliance with PM emissions the permittee shall submit a schedule and conduct one performance test within six months from the date of the final permit (V-08-031) using EPA Reference Method 5. The permittee shall conduct another performance test for PM emissions by the start of the fourth year of this permit to demonstrate compliance with the applicable standard. Emission factors derived from stack testing are to replace the emission factor currently listed in the KYEIS, and shall be used to calculate future emissions.
- c. Pursuant to 401 KAR 50:045, when the unit is in operation, the permittee shall read, weather permitting, the visible emissions using U.S. EPA Reference Method 9 once per seven calendar days, or more frequently if requested by the Division.

## **SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **4. Specific Monitoring Requirements:**

- a. Pursuant to 401 KAR 52:020, Section 26, monitoring of operations for sulfur dioxide and hydrogen chloride emissions shall be conducted by representative (batch delivered) sampling and analysis of fuel.
- b. Pursuant to 401 KAR 52:020, Section 26, the rate of fuel combustion shall be recorded at least monthly. The heating value and ash content of fuels shall be ascertained per delivered shipment.
- c. Pursuant to 401 KAR 52:020, Section 26, to meet the monitoring requirement for opacity, the permittee shall comply with reading the opacity weekly according to Testing Requirements, Subsection 3(b) of this permit. Excluding the startup and shut down periods, if any six-minute average opacity value exceeds the opacity standard, the permittee shall, as appropriate, initiate an inspection of the control equipment and boiler system and make any necessary repairs. If a Method 9 cannot be performed, the reason for not performing the test shall be documented.
- d. Pursuant to 401 KAR 52:020, Section 26, the hours of operation and fuel usage (tons) shall be monitored on a weekly basis.

### **5. Specific Recordkeeping Requirements:**

- a. Pursuant to 401 KAR 52:020, Section 26, records of fuel usage, sulfur content, chlorine content and heat content of each delivered shipment shall be maintained by the permittee.
- b. Pursuant to 401 KAR 52:020, Section 26, the permittee shall maintain the records of the amount of fuel burned and hours of operation on a weekly basis.
- c. Pursuant to 401 KAR 52:020, Section 26, the permittee shall maintain records of U.S. EPA Reference Method 9 readings. Records of the fuel sampling and analysis and sulfur and heat content shall be maintained for inspection upon request by any duly authorized representative of the Division for Air Quality.

### **6. Specific Reporting Requirements:**

- a. Pursuant to 401 KAR 52:020, Section 26, the permittee shall report fuel usage, sulfur content, heat content, the number of excursions above the sulfur dioxide standard, date of excursion, value of the excursions, and percentage of the sulfur dioxide data showing excursions from emission limitations in each calendar quarter.
- b. Pursuant to 401 KAR 52:020, Section 26, the permittee shall report the number of excursions (excluding startup, shutdown, and malfunction data) above the opacity standard, date and time of excursions, opacity value of the excursions, and percentage of the opacity data showing excursions above the opacity standards in each calendar quarter.

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**7. Specific Control Equipment Operating Conditions:**

- a. Pursuant to 401 KAR 50:055, the multiclones shall be operated to maintain compliance with permitted emission limitations, in accordance with manufacturer's specifications and/or standard operating practices.
- b. Pursuant to 401 KAR 52:020, Section 26, records regarding the maintenance of the control equipment shall be maintained.
- c. See Section E for further requirements.

## **SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Emission Unit 02 (EP-03)**

### **Natural Gas Fired Indirect Heat Exchanger**

#### **Description:**

Maximum Rating: 18MMBtu/hr

Year Constructed: 1989

#### **APPLICABLE REGULATIONS:**

401 KAR 59:015, New indirect heat exchangers, applicable to an emissions unit with a capacity of less than 250 MMBtu/hr which commenced on or after April 9, 1972.

401 KAR 60:005, incorporating by reference 40 CFR 60, Subpart Dc, Standards of performance for small industrial-commercial-institutional steam generating units, applies to each steam generating unit commenced after June 8, 1989 that has a maximum design heat input capacity between 10 and 100 MMBtu/hr.

#### **1. Operating Limitations:**

None

#### **2. Emission Limitations:**

- a. Pursuant to 401 KAR 59:015, Section 4(1)(c), particulate emissions from the unit's stack shall not exceed 0.34 lb/MMBtu, based on a three-hour-average.
- b. Pursuant to 401 KAR 59:015, Section 4(2)(b), opacity emissions from the indirect heat exchanger shall not exceed twenty (20) percent except that a maximum of forty (40) percent opacity shall be permissible for not more than six consecutive minutes in any sixty consecutive minutes during cleaning the fire box or blowing soot.
- c. Pursuant to 401 KAR 59:015, Section 4(2)(c), emissions from the indirect heat exchanger shall not exceed 20 percent opacity based on a six minute average except during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations.
- d. Pursuant to 401 KAR 59:015, Section 5, sulfur dioxide emissions from the unit's stack shall not exceed 1.20 lb/MMBtu.

#### **Compliance Demonstration:**

The unit is considered to be in compliance with PM, SO<sub>2</sub> and opacity standards while burning natural gas.

#### **3. Testing Requirements:**

See Section G.4.



## **SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **4. Specific Monitoring Requirements:**

- a. Pursuant to 401 KAR 52:020, Section 26, the permittee shall monitor hours of operation and the natural gas usage on a monthly basis.
- b. Pursuant to 401 KAR 52:020, Section 26, the permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of observations. If visible emissions are seen then the opacity shall be determined by using U.S. EPA Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for any necessary repairs.

### **5. Specific Recordkeeping Requirements:**

Pursuant to 401 KAR 52:020, Section 26, records of fuel used, opacity readings and hours of operation shall be maintained on a monthly basis.

### **6. Specific Reporting Requirements:**

See Section F

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Emission Unit 04      Fourteen (14) Natural Gas Fired Indirect Heat Exchangers**

<b><u>Description:</u></b>	<b><u>Capacity</u></b>	<b><u>Year Constructed</u></b>
EP 01- Shauntee Hall	1.7 MMBtu/hr	1983
EP 02- Aquaculture Hatchery	1.2 MMBtu/hr	1983
EP 03- The Halls (Old Young Hall)	Two (2) 2.4 MMBtu/hr each	1993
EP 04- The Halls (Old Young Hall)	Two (2) 2.0 MMBtu/hr each	2006
EP 05- Atwood Research Center	2.5 MMBtu/hr	1994
EP 06- Underwood Cafeteria	Two (2) 3.5 MMBtu/hr each	2002
EP 07- Whitney Young Hall	Five (5) 1.5 MMBtu/hr each	2008

**APPLICABLE REGULATIONS:**

401 KAR 59:015, New Indirect Heat Exchangers applicable to an emission unit with a capacity less than 250 MMBtu/hour and commenced on or after April 9, 1972.

**1.      Operating Limitations:**

None

**2.      Emission Limitations:**

- a. Pursuant to 401 KAR 59:015 Section 4(1)(b), particulate emissions from each unit's stack shall not exceed 0.32 lb/MMBtu, based on a three hour average.
- b. Pursuant to 401 KAR 59:015 Section 4(2), visible emissions from each unit's stack shall not exceed 20 percent opacity based on a six-minute average, except a maximum of forty (40) percent opacity shall be permissible for not more than six (6) consecutive minutes in any sixty (60) consecutive minute during cleaning of the firebox or blowing soot.
- c. Pursuant to 401 KAR 59:015, Section 4(2)(c), emissions from each unit shall not exceed 20 percent opacity based on a six minute average except during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations.
- d. Pursuant to 401 KAR 59:015 Section 5(1)(b), sulfur dioxide emissions from each unit's stack shall not exceed 1.06 lb/MMBtu, based on a three hour average.
- e. Each unit is considered to be in compliance with the PM, SO<sub>2</sub>, and opacity standards while burning natural gas.

**3.      Testing Requirements:**

See Section G.4.

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**4. Specific Monitoring Requirements:**

Pursuant to 401 KAR 52:020, Section 26, the permittee shall monitor the amount of fuel consumed and hours of operation on a monthly basis.

**5. Specific Recordkeeping Requirements:**

Pursuant to 401 KAR 52:020, Section 26, the permittee shall maintain records of the amount of fuel consumed and hours of operation on a monthly basis.

**6. Specific Reporting Requirements:**

See Section F.

## **SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Emission Unit 05      Ten (10) Diesel and Natural Gas Fired Emergency Generators**

#### **Description:**

<i>Six (6) - diesel units</i>		<b>Capacity</b>	<b>Year Constructed</b>
EP08-Hill Student Center	Kohler	285 KWH	2001
EP09-Jordan	Kato	520 KWH	1979
EP10-Jordan	Kohler	100 KWH	1975
EP11-Research Farm	Mil surplus	100 KWH	2007
EP12-Hathaway Hall	Cummins	125 KWH	2008
EP13-Whitney Young	Generac	100 KWH	2008
<i>Four (4)- natural gas units:</i>			
EP14-The Halls (Old Young)	Centurion	15 KWH	2006
EP15-Aquaculture Hatchery	Kohler	70 KWH	1983
EP16-Aquaculture Nutn. Lab	Kohler	10 KWH	1983
EP17-Exum Center	Kohler	70 KWH	1992

#### **APPLICABLE REGULATIONS:**

None

#### **1.      Operating Limitations:**

None

#### **2.      Emission Limitations:**

None

#### **3.      Testing Requirements:**

None

#### **4.      Specific Monitoring Requirements:**

- a. Pursuant to 401 KAR 52:020, Section 26, the permittee shall monitor the amount of fuel consumed by each generator on a monthly basis.
- b. Pursuant to 401 KAR 52:020, Section 26, the permittee shall monitor the hours of operation of each generator on a monthly basis.

#### **5.      Specific Recordkeeping Requirements:**

- a. Pursuant to 401 KAR 52:020, Section 26, the permittee shall compile and maintain records of the total amount of fuel consumed by each generator on a monthly basis and on a consecutive twelve (12) month total.
- b. Pursuant to 401 KAR 52:020, Section 26, the permittee shall maintain records of the total hours of operation of each generator on a monthly basis and on a consecutive twelve (12) month total.

**SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

6. **Specific Reporting Requirements:**  
See Section F

**SECTION C - INSIGNIFICANT ACTIVITIES**

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. Although these activities are designated as insignificant the permittee must comply with the applicable regulation. Process and emission control equipment at each insignificant activity subject to an opacity standard shall be inspected monthly and a qualitative visible emissions evaluation made. Results of the inspection, evaluation, and any corrective action shall be recorded in a log.

<u>Description</u>	<u>Applicable Regulation</u>
1. 35 -natural gas space heaters (1.79 MMBtu/hr, total)	N/A
2. 12- water heaters (6.2 MMBtu/hr, total)	N/A
3. Coal Piles	401 KAR 63:010

## **SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS**

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. Particulate matter (PM), sulfur dioxides (SO<sub>2</sub>), and hydrogen chloride (HCl) emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.

## **SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS**

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.



## **SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS**

1. Pursuant to Section 1b-IV-1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
  - a. Date, place as defined in this permit, and time of sampling or measurements;
  - b. Analyses performance dates;
  - c. Company or entity that performed analyses;
  - d. Analytical techniques or methods used;
  - e. Analyses results; and
  - f. Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b-IV-2 and 1a-8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
  - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
  - b. To access and copy any records required by the permit;
  - c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Sections 1b-V-1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

**SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)**

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
  - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
  - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7 above) to the Regional Office listed on the front of this permit within 30 days. Deviations from permit requirements, including those previously reported under F.7 above, shall be included in the semiannual report required by F.6 [Sections 1b-V, 3 and 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
  - a. Identification of the term or condition;
  - b. Compliance status of each term or condition of the permit;
  - c. Whether compliance was continuous or intermittent;
  - d. The method used for determining the compliance status for the source, currently and over the reporting period.
  - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

**SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)**

- f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications shall be mailed to the following addresses:

Division for Air Quality  
Frankfort Regional Office  
643 Teton Trail, Suite B  
Frankfort, KY 40601-1758

U.S. EPA Region 4  
Air Enforcement Branch  
Atlanta Federal Center  
61 Forsyth St.  
Atlanta, GA 30303-8960

Division for Air Quality  
Central Files  
200 Fair Oaks Lane, 1<sup>st</sup> Floor  
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.

**SECTION G - GENERAL PROVISIONS****1. General Compliance Requirements**

- a. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 Section 3(1)(b) and a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act). Noncompliance with this permit is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a-3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].
- b. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a-6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- c. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
  - (1) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
  - (2) The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
  - (3) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;
  - (4) New requirements become applicable to a source subject to the Acid Rain Program.

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

- d. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Sections 1a- 7 and 8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- e. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:020 Section 3(1)(c)].

**SECTION G - GENERAL PROVISIONS (CONTINUED)**

- f. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].
- g. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- h. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- i. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens. [Section 1a-15-b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- j. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a-10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- k. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3) 2.].
- l. This permit does not convey property rights or exclusive privileges [Section 1a-9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- m. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.
- n. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3) 4.].
- o. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3) 1.].

## **SECTION G - GENERAL PROVISIONS (CONTINUED)**

- p. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.
- q. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with:
  - (1) Applicable requirements that are included and specifically identified in the permit and
  - (2) Non-applicable requirements expressly identified in this permit.

### **2. Permit Expiration and Reapplication Requirements**

- a. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].
- b. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020 Section 8(2)].

### **3. Permit Revisions**

- a. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
- b. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

**SECTION G - GENERAL PROVISIONS (CONTINUED)****4. Construction, Start-Up, and Initial Compliance Demonstration Requirements**

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction of the equipment described herein, emission unit 03 (EP03) and emission unit 04 (EP 07) in accordance with the terms and conditions of this permit.

- a. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.
- b. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, with a copy to the Division's Frankfort Central Office, notification of the following:
  - (1) The date when construction commenced.
  - (2) The date of start-up of the affected facilities listed in this permit.
  - (3) The date when the maximum production rate specified in the permit application was achieved.
- c. Pursuant to 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.
- d. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the proposed permit. Operational or final permit approval is not granted by this permit until compliance with the applicable standards specified herein has been demonstrated pursuant to 401 KAR 50:055. If compliance is not demonstrated within the prescribed timeframe provided in 401 KAR 50:055, the source shall operate thereafter only for the purpose of demonstrating compliance, unless otherwise authorized by Section I of this permit or order of the Cabinet.
- e. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. Testing must also be conducted in accordance with General Provisions G.5 of this permit.
- f. Terms and conditions in this permit established pursuant to the construction authority of 401 KAR 51:017 or 401 KAR 51:052 shall not expire.

**SECTION G - GENERAL PROVISIONS (CONTINUED)****5. Testing Requirements**

- a. Pursuant to 401 KAR 50:045 Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least Thirty (30) days prior to the test.
- b. Pursuant to 401 KAR 50:045 Section 5, in order to demonstrate that a source is capable of complying with a standard at all times, any required performance test shall be conducted under normal conditions that are representative of the source's operations and create the highest rate of emissions. If [When] the maximum production rate represents a source's highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive these requirements on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.
- c. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

**6. Acid Rain Program Requirements**

If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

**7. Emergency Provisions**

- a. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
  - (1) An emergency occurred and the permittee can identify the cause of the emergency;



**SECTION G - GENERAL PROVISIONS (CONTINUED)**

- (2) The permitted facility was at the time being properly operated;
  - (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
  - (4) Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
  - (5) This requirement does not relieve the source of other local, state or federal notification requirements.
- b. Emergency conditions listed in General Condition G.7.a above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
  - c. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

**8. Ozone Depleting Substances**

- a. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
  - (1) Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
  - (2) Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
  - (3) Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
  - (4) Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
  - (5) Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
  - (6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
- b. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

## **SECTION G - GENERAL PROVISIONS (CONTINUED)**

### 9. Risk Management Provisions

- a. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center  
P.O. Box 1515  
Lanham-Seabrook, MD 20703-1515.

- b. If requested, submit additional relevant information to the Division or the U.S. EPA.

**SECTION H - ALTERNATE OPERATING SCENARIOS**

None

**SECTION I - COMPLIANCE SCHEDULE**